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Atmospheric Measurement Techniques Discussions

Interactive comment on "Radiometric correction of observations from microwave humidity sounders" *by* Isaac Moradi et al.

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It was with great interest that I read the manuscript amt-2018-252 and the referee's knowledgeable comments. Radiometric correction of microwave sounders is certainly an important task. One result presented by the authors particularly caught my attention, viz. the failure of the intercalibration coefficients to remove the bias between NOAA-16 and -17 for channel 5 after 2006. As I did not find an explanation for this anomaly in the manuscript, I take the liberty of offering one myself: radio frequency interference (RFI) in combination with a strongly decreasing gain (see amt-11-4005-2018). As RFI has got nothing to do with the scene temperature, it cannot be corrected with the coefficients calculated by the authors.

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Discussion paper

They list many other possible sources of bias as well, so I suggest to add a discussion of why a linear function of brightness temperature is considered sufficient to deal with all of them.

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